

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1600RXA

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS	4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS	5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS	6	NOV 10	CA/Caplus F-Term thesaurus enhanced
NEWS	7	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS	8	NOV 20	CA/Caplus to MARPAT accession number crossover limit increased to 50,000
NEWS	9	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS	10	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS	11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS	12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS	13	DEC 18	CA/Caplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS	14	DEC 18	CA/Caplus patent kind codes updated
NEWS	15	DEC 18	MARPAT to CA/Caplus accession number crossover limit increased to 50,000
NEWS	16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS	17	DEC 27	CA/Caplus enhanced with more pre-1907 records
NEWS	18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS	19	JAN 16	CA/Caplus Company Name Thesaurus enhanced and reloaded
NEWS	20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS	21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS	22	JAN 22	CA/Caplus updated with revised CAS roles
NEWS	23	JAN 22	CA/Caplus enhanced with patent applications from India
NEWS	24	JAN 29	PHAR reloaded with new search and display fields
NEWS	25	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS	26	FEB 13	CASREACT coverage to be extended
NEWS	27	Feb 15	PATDPASPC enhanced with Drug Approval numbers
NEWS	28	Feb 15	RUSSIAPAT enhanced with pre-1994 records
NEWS	29	Feb 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS	30	Feb 26	MEDLINE reloaded with enhancements
NEWS	31	Feb 26	EMBASE enhanced with Clinical Trial Number field
NEWS	32	Feb 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS	33	Feb 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS	34	Feb 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases

NEWS EXPRESS    NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS       STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN       Welcome Banner and News Items

NEWS IPC8      For general information regarding STN implementation of IPC 8  
NEWS X25      X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 12:13:27 ON 05 MAR 2007

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.84	0.84

FILE 'CAPLUS' ENTERED AT 12:16:03 ON 05 MAR 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 5 Mar 2007 VOL 146 ISS 11

FILE LAST UPDATED: 4 Mar 2007 (20070304/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s us20050222438/pn

L1            1 US20050222438/PN  
              (US2005222438/PN)

=> d

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2005:1078327 CAPLUS  
 DN 143:349519  
 TI Reverse Kleiner method for manufacturing nitrogen dioxide, nitric oxide,  
 nitric acid, metallic ascorbates and alkyl ascorbates of vitamin C  
 IN Kleiner, Bela  
 PA USA  
 SO U.S. Pat. Appl. Publ., 15 pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 1  

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005222438	A1	20051006	US 2004-814916	20040330
US 2004-814916		20040330		

=> select l1  
ENTER ANSWER NUMBER OR RANGE (1-):1  
ENTER DISPLAY CODE (TI) OR ?:rn  
E1 THROUGH E7 ASSIGNED

=> fil caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	3.74	4.58

FILE 'CAPLUS' ENTERED AT 12:16:28 ON 05 MAR 2007  
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FILE COVERS 1907 - 5 Mar 2007 VOL 146 ISS 11  
FILE LAST UPDATED: 4 Mar 2007 (20070304/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s e1-e7  
98195 10102-43-9/BI  
30387 10102-44-0/BI  
2461 134-03-2/BI  
82423 50-81-7/BI  
839 6381-77-7/BI  
55098 7697-37-2/BI  
1905 89-65-6/BI  
L2 252653 (10102-43-9/BI OR 10102-44-0/BI OR 134-03-2/BI OR 50-81-7/BI OR  
6381-77-7/BI OR 7697-37-2/BI OR 89-65-6/BI)

=> d scan l2

L2 252653 ANSWERS CAPIUS COPYRIGHT 2007 ACS on STN  
CC 49-3 (Industrial Inorganic Chemicals)  
TI Method for purification of nitrogen oxide and apparatus for purification  
of nitrogen oxide  
ST nitrogen oxide purifn absorption liquefaction concn vessel  
IT Absorption  
Concentration (process)  
Liquefaction  
(absorption and liquefaction process for purification of nitrogen  
oxide)  
IT Purification  
(apparatus; absorption and liquefaction process for purification of  
nitrogen  
oxide)  
IT 10024-97-2P, Nitrogen oxide (N2O) 10102-43-9P, Nitrogen oxide  
(NO) 10102-44-9P, Nitrogen oxide (NO2)  
RL: PUR (Purification or recovery): PREP (Preparation)  
(absorption and liquefaction process for purification of nitrogen  
oxide)  
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 134-03-2/rn

2461 134-03-2

16 134-03-2D

L3 2448 134-03-2/RN

(134-03-2 (NOTL) 134-03-2D )

=> d

L3 ANSWER 1 OF 2448 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2007:203200 CAPLUS  
 TI Nontoxic potentiation sensitization of ovarian cancer therapy by  
 supplementary treatment with Vitamins  
 IN Gillooteaux, Jacques; Taper, Henryk S.; Jamison, James M.; Summers, Jack  
 L.  
 PA Summa Health System, USA  
 SO U.S. Pat. Appl. Publ., 21pp., Cont.-in-part of U.S. Ser. No. 160,152.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CMT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2007043110	A1	20070222	US 2006-464295	20060814
US 2003073738	A1	20030417	US 2002-160152	20020603
US 7091241	B2	20060815		
PRAI US 2001-295025P	P	20010601		
US 2002-160152	A2	20020603		

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

20.21

24.79

FILE 'REGISTRY' ENTERED AT 12:17:43 ON 05 MAR 2007

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 MAR 2007 HIGHEST RN 924728-01-8

DICTIONARY FILE UPDATES: 4 MAR 2007 HIGHEST RN 924728-01-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d his

(FILE 'HOME' ENTERED AT 12:13:27 ON 05 MAR 2007)

FILE 'CAPLUS' ENTERED AT 12:16:03 ON 05 MAR 2007

L1 1 S US20050222438/PN  
SELECT L1 1 RN

FILE 'CAPLUS' ENTERED AT 12:16:28 ON 05 MAR 2007

L2 252653 S E1-E7  
L3 2448 S 134-03-2/RN

FILE 'REGISTRY' ENTERED AT 12:17:43 ON 05 MAR 2007

=> s e1-e7

1 10102-43-9/BI  
(10102-43-9/RN)

1 10102-44-0/BI  
(10102-44-0/RN)

1 134-03-2/BI  
(134-03-2/RN)

1 50-81-7/BI  
(50-81-7/RN)

1 6381-77-7/BI  
(6381-77-7/RN)

1 7697-37-2/BI  
(7697-37-2/RN)

1 89-65-6/BI  
(89-65-6/RN)

L4 7 (10102-43-9/BI OR 10102-44-0/BI OR 134-03-2/BI OR 50-81-7/BI OR



6381-77-7/BI OR 7697-37-2/BI OR 89-65-6/BI)

=> d 14 1-7

L4 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 10102-44-0 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Nitrogen oxide (NO2) (8CI, 9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Nitrite radical  
 CN Nitrito  
 CN Nitro  
 CN Nitrogen dioxide  
 CN Nitrogen dioxide (NO2)  
 CN Nitrogen peroxide  
 DR 127999-62-6, 56003-83-9, 119990-11-3, 66252-28-6, 78246-05-6, 50443-93-1  
 MF N O2  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSChem, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMLIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDS, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

O=N=O

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

30348 REFERENCES IN FILE CA (1907 TO DATE)  
 69 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 30387 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 10102-43-9 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Nitrogen oxide (NO) (8CI, 9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Amidogen, oxo-  
 CN INOmax  
 CN Nitric oxide  
 CN Nitric oxide (NO)  
 CN Nitric oxide trimer  
 CN Nitrogen monoxide  
 CN Nitrogen monoxide  
 CN Nitrogen oxide (N4O4)  
 CN Nitrogen(II) oxide  
 CN Nitrosyl radical  
 CN OHM 11771  
 DR 53851-19-7, 51005-20-0, 51005-21-1, 90452-29-2  
 MF N O  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSChem, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMLIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK\*, MSDS-OHS, PATDPASPC, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VETU, VTB  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

N=O

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

97972 REFERENCES IN FILE CA (1907 TO DATE)  
 552 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 98195 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 7697-37-2 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Nitric acid (CA INDEX NAME)  
 OTHER NAMES:  
 CN Aqua fortis  
 CN Azotic acid  
 CN Funic acid  
 CN Hydrogen nitrate  
 CN Nital  
 CN Nitric acid (HONO2)  
 CN Nitryl hydroxide  
 CN NSC 147791  
 CN NSC 15203  
 DR 802862-59-5, 78989-43-2, 218625-70-8  
 MF H N O3  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSChem, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMLIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDS, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, PS, RTECS\*, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

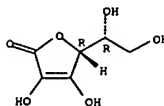


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

54788 REFERENCES IN FILE CA (1907 TO DATE)  
 2222 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 55098 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 6381-77-7 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN D-erythro-Hex-2-enonic acid, γ-lactone, monosodium salt (8CI, 9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Araboscorbic acid, monosodium salt, D- (6CI)  
 OTHER NAMES:  
 CN E 316  
 CN Erbit N  
 CN Eribate N  
 CN Erythorbic acid sodium salt  
 CN Isona  
 CN Mercate 20  
 CN Neo-Cebitate  
 CN Oroban  
 CN Sodium D-isoascorbate  
 CN Sodium erythorbate  
 CN Sodium isoascorbate  
 CN Sodium Isovitamin C  
 FS STEREOSEARCH  
 DR 8003-96-1  
 MF C6 H8 O6 . Na  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSChem, EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDS, IPA, MSDS-OHS, PIRA, PROMT, RTECS\*, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 CRN (89-65-6)

Absolute stereochemistry.

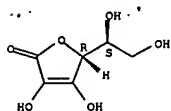


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

837 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 839 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 134-03-2 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN L-Ascorbic acid, monosodium salt (8CI, 9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Ascorbic acid, sodium deriv. (6CI, 7CI)  
 OTHER NAMES:  
 CN 3-Oxo-L-gulofuranolactone sodium  
 CN Ascorbic acid sodium salt  
 CN Ascorbicin  
 CN Ascorbin  
 CN ASK-P 10KR  
 CN Cebilate  
 CN Cenolate  
 CN CK 40  
 CN CK 40 (ascorbate)  
 CN E 301  
 CN E 301 (antioxidant)  
 CN HBL 508  
 CN Iskia C  
 CN L-Ascorbic acid sodium salt  
 CN Limcee  
 CN Monosodium ascorbate  
 CN Monosodium L-ascorbate  
 CN Natrasorb  
 CN Natri-C  
 CN Sodascorbate  
 CN Sodium ascorbate  
 CN Sodium L-ascorbate  
 CN Vitamin C Na salt  
 CN Vitamin C sodium  
 FS STEREOSEARCH  
 DR 884311-57-3, 129940-98-3, 156683-68-0  
 MF C6 H8 O6 . Na  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDS, IMSCSEARCH, IPA, MRCK\*, MSDS-OHS, PIRA, PROMT, PS, RTECS\*, TOXCENTER, USAN, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*, WHO  
 (\*\*Enter CHEMLIST file for up-to-date regulatory information)  
 CRN (50-81-7)

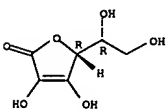
Absolute stereochemistry.



● Na

L4 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 89-65-6 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN D-erythro-Hex-2-enonic acid, γ-lactone (8CI, 9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN D-erythro-Hexonic acid, 3-keto-, γ-lactone (6CI)  
 CN Erythorbic acid (7CI)  
 OTHER NAMES:  
 CN Araoascorbic acid  
 CN Araoascorbic acid, D-  
 CN D-(-)-Isoascorbic acid  
 CN D-arabino-Ascorbic acid  
 CN D-Araoascorbic acid  
 CN D-Erythorbic acid  
 CN D-Isoascorbic acid  
 CN E 315  
 CN Erycorbin  
 CN Glucosaccharonic acid  
 CN Isoascorbic acid  
 CN Isovitamin C  
 CN Mercate 5  
 CN Neo-Cebicure  
 CN NSC 6117  
 CN Saccharosonic acid  
 FS STEREOSEARCH  
 DR 98966-42-8, 74242-57-2  
 MF C6 H8 O6  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, GELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDS, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, TULSA, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST file for up-to-date regulatory information)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1900 REFERENCES IN FILE CA (1907 TO DATE)  
 119 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1905 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 30 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN (Continued)

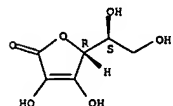
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2456 REFERENCES IN FILE CA (1907 TO DATE)  
 16 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 2461 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 17 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 50-81-7 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN (+)-Ascorbic acid  
 CN 100H  
 CN 3-keto-L-gulofuranolactone  
 CN 3-Oxo-L-gulofuranolactone  
 CN Adenex  
 CN Allercorb  
 CN Antiscorbic vitamin  
 CN Antiscorbic vitamin  
 CN Ascoltin  
 CN Ascorbajen  
 CN Ascorbic acid  
 CN Ascorbicap  
 CN Ascorbutina  
 CN Ascorell  
 CN Ascorin  
 CN Ascorreal  
 CN Ascorvit  
 CN C-L 6/PW  
 CN C-Quin  
 CN C-Vimin  
 CN Cantan  
 CN Cantaxin  
 CN Catavin C  
 CN Ce-Mi-Lin  
 CN Ce-Vi-Sol  
 CN Cebicure  
 CN Cebion  
 CN Cebione  
 CN Cecon  
 CN Cegiolan  
 CN Ceglion  
 CN Ceklin  
 CN Celaskon  
 CN Celin  
 CN Cell C  
 CN Cemaqyl  
 CN Cenekone  
 CN Cereon  
 CN Cergona  
 CN Cescorbat  
 CN Cetamid  
 CN Cetane  
 CN Cetane-Caps TC  
 CN Cetebe  
 CN Cetemican  
 CN Cevalin  
 CN Cevatine  
 CN Cevex  
 CN Cevimin  
 CN Cevital  
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for  
 FS STEREOSEARCH  
 DR 884311-69-5, 885512-24-3, 623158-95-2, 56533-05-2, 57304-74-2, 57606-40-3, 56172-55-5, 129940-97-2, 14536-17-5, 50976-75-5, 154170-90-8, 89924-69-6,

L4 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2007 ACS on STN (Continued)  
 30208-61-8, 259133-78-3  
 MF C6 H8 O6  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS,  
 BIOTECINFO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNS, CHEMCATS,  
 CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGU,  
 EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMEIN\*, HSDB\*,  
 IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK\*, MSDS-OHS,  
 NAPRALERT, PHAR, PIRA, PROMT, PS, RTECS\*, SPECINFO, SYNTHLINE,  
 TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*, WHO  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

82247 REFERENCES IN FILE CA (1907 TO DATE)  
 1828 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 82423 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 12 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> fil caplus  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
15.00	39.79

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 12:19:16 ON 05 MAR 2007  
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FILE COVERS 1907 - 5 Mar 2007 VOL 146 ISS 11  
FILE LAST UPDATED: 4 Mar 2007 (20070304/ED)

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<http://www.cas.org/infopolicy.html>

=> s 50-81-7/rn

82423 50-81-7  
1832 50-81-7D

L5 81335 50-81-7/RN  
(50-81-7 (NOTL) 50-81-7D )

=> s 15 and calcium

804880 CALCIUM  
36 CALCIUMS  
804883 CALCIUM  
(CALCIUM OR CALCIUMS)

L6 6231 L5 AND CALCIUM

=> s 16 and calcium ascorbate

804880 CALCIUM  
36 CALCIUMS  
804883 CALCIUM  
(CALCIUM OR CALCIUMS)  
35135 ASCORBATE  
625 ASCORBATES  
35354 ASCORBATE  
(ASCORBATE OR ASCORBATES)  
409 CALCIUM ASCORBATE  
(CALCIUM(W) ASCORBATE)

L7 234 L6 AND CALCIUM ASCORBATE

=> s 17 and nitrogen dioxide

642352 NITROGEN  
3873 NITROGENS  
645074 NITROGEN  
(NITROGEN OR NITROGENS)

485654 DIOXIDE  
6710 DIOXIDES  
487352 DIOXIDE  
(DIOXIDE OR DIOXIDES)  
23314 NITROGEN DIOXIDE  
(NITROGEN(W)DIOXIDE)  
L8 0 L7 AND NITROGEN DIOXIDE

=> s 17 and nitric oxide  
183587 NITRIC  
3 NITRICS  
183590 NITRIC  
(NITRIC OR NITRICS)  
1735541 OXIDE  
353041 OXIDES  
1835361 OXIDE  
(OXIDE OR OXIDES)  
110370 NITRIC OXIDE  
(NITRIC(W)OXIDE)  
L9 0 L7 AND NITRIC OXIDE

=> s 17 and ascorbic acid  
84230 ASCORBIC  
4322646 ACID  
1571174 ACIDS  
4824578 ACID  
(ACID OR ACIDS)  
83530 ASCORBIC ACID  
(ASCORBIC(W)ACID)  
L10 181 L7 AND ASCORBIC ACID

=> d 110 1-10

L10 ANSWER 1 OF 181 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2007:15009 CAPLUS  
DN 146:107684  
TI Novel propofol compositions comprising ascorbic acid  
or its salts  
IN Dixit, Suresh; Goyal, Sandhya; Okech, Frederick; Shek, Efraim  
PA Taro Pharmaceuticals U.S.A., Inc., USA  
SO PCT Int. Appl., 38pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2007000662	A2	20070104	WO 2006-181898	20060201
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, ME, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZH, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRAI US 2005-649777P	P	20050203		

L10 ANSWER 2 OF 181 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2007:10991 CAPLUS  
DN 146:107648  
TI Composition for support of bladder health and boosting the immune system  
PA Dr. Willmar Schwabe G.m.b.H. & Co. K.-G., Germany  
SO Ger. Gebrauchsmusterschrift, 4pp.  
CODEN: GGXXFR  
DT Patent  
LA German  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 202006014919	U1	20070104	DE 2006-202006014919	20060929
PRAI DE 2006-202006014919		20060929		

L10 ANSWER 3 OF 181 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2006:1348204 CAPLUS  
DN 146:128468  
TI Application of paramagnetic Mn heteropoly coordination compound in contrast medium of magnetic resonance imaging  
IN Pei, Fengkui; Li, Zhongfeng; Li, Xiaojing; Li, Weisheng  
PA Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Peop. Rep. China  
SO Faming Zhuanli Shengqing Gongkai Shuomingshu, 15pp.  
CODEN: CNXXEV  
DT Patent  
LA Chinese  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CN 1879896	A	20061220	CN 2006-10016823	20060429
PRAI CN 2006-10016823		20060429		

L10 ANSWER 4 OF 181 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2006:1309962 CAPLUS  
DN 146:44567  
TI Universal protein formulation meeting multiple dietary needs for optimal health and enhancing the human immune system.  
IN Robertson, Marion G.  
PA USA  
SO U.S. Pat. Appl. Publ., 29pp.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2006280840	A1	20061214	US 2005-135895	20050524
PRAI US 2005-135895		20050524		

L10 ANSWER 5 OF 181 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2006:1221786 CAPLUS  
DN 146:13153  
TI Iodized lecithin soft capsule and its preparation  
IN Wan, Liuyi  
PA Wen, Guanghui, Peop. Rep. China  
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 7pp.  
CODEN: CNXKEV  
DT Patent  
LA Chinese  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CN 1861057	A	20061115	CN 2006-10012274	20060615
PRAI CN 2006-10012274		20060615		

L10 ANSWER 6 OF 181 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2006:1094123 CAPLUS  
DN 145:426010  
TI Nutrient composition for treating sarcoma and prostate cancer  
IN Rath, Matthias; Roomi, M. Waheed; Ivanov, Vadim; Niedzwiecki, Aleksandra  
PA Meth.  
SO PCT Int. Appl., 26pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006108429	A1	20061019	WO 2005-EP3766	20050411
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRAI WO 2005-EP3766		20050411		
RE.CNT 4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT			

L10 ANSWER 7 OF 181 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2006:1050240 CAPLUS  
DN 145:383419  
TI Method for preparation of antioxidant capsule with efficacy doubled by impregnating antioxidant into a microcapsule, antioxidant capsule prepared by this method and goods using antioxidant capsule  
IN Lee, Jae Sik  
PA S. Korea  
SO Repub. Korean Kongkai Taeho Kongbo, No pp. given  
CODEN: KRXXA7  
DT Patent  
LA Korean  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI KR 2006003777	A	20060111	KR 2004-52816	20040707
PRAI KR 2004-52816		20040707		

L10 ANSWER 8 OF 181 CAPLUS COPYRIGHT 2007 ACS on STN  
AN 2006:912541 CAPLUS  
DN 145:263351  
TI Tocopherols, ascorbic acid, riboflavins, and CoQ10 for increasing blood CoQ10  
IN Torisumi, Yasuhiro  
PA Daiichi Sankyo Healthcare Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 13pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2006232815	A	20060907	JP 2006-14687	20060124
PRAI JP 2005-16383	A	20050125		



L10 ANSWER 9 OF 181 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:795605 CAPLUS

DN 145:209681

TI Spray-dried compositions and their uses

IN Subramaniam, Anandaraman

PA Firmenich SA, Switz.

SO PCT Int. Appl., 27pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006082536	A1	20060810	WO 2006-1B50225	20060120
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZH, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRAI US 2005-650181P P 20050203

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 10 OF 181 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:763023 CAPLUS

DN 145:174380

TI Oral compositions containing L-cysteine and ascorbic

acid for two-times daily administration

IN Okada, Minoru; Onuki, Yoichi; Kurasumi, Toshiaki; Otaki, Takashi

PA S. S. Pharmaceutical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKOXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2006199640	A	20060803	JP 2005-14103	20050121
KR 2006085173	A	20060726	KR 2006-2745	20060110
CN 1839826	A	20061004	CN 2006-10001647	20060120
PRAI JP 2005-14103	A	20050121		

=> d his

(FILE 'HOME' ENTERED AT 12:13:27 ON 05 MAR 2007)

FILE 'CAPLUS' ENTERED AT 12:16:03 ON 05 MAR 2007

L1 1 S US20050222438/PN  
SELECT L1 1 RN

FILE 'CAPLUS' ENTERED AT 12:16:28 ON 05 MAR 2007

L2 252653 S E1-E7  
L3 2448 S 134-03-2/RN

FILE 'REGISTRY' ENTERED AT 12:17:43 ON 05 MAR 2007

L4 7 S E1-E7

FILE 'CAPLUS' ENTERED AT 12:19:16 ON 05 MAR 2007

L5 81335 S 50-81-7/RN  
L6 6231 S L5 AND CALCIUM  
L7 234 S L6 AND CALCIUM ASCORBATE  
L8 0 S L7 AND NITROGEN DIOXIDE  
L9 0 S L7 AND NITRIC OXIDE  
L10 181 S L7 AND ASCORBIC ACID

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	35.32	75.11

FILE 'REGISTRY' ENTERED AT 12:21:11 ON 05 MAR 2007

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DICTIONARY FILE UPDATES: 4 MAR 2007 HIGHEST RN 924728-01-8

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predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> s 50-81-7

L11 1 50-81-7  
(50-81-7/RN)

=> s 89-65-6

L12 1 89-65-6  
(89-65-6/RN)

=> fil caplus  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.45	75.56

FULL ESTIMATED COST

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=> fil reg  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.47	76.03

FULL ESTIMATED COST

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DICTIONARY FILE UPDATES: 4 MAR 2007 HIGHEST RN 924728-01-8

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

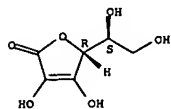
<http://www.cas.org/ONLINE/UG/regprops.html>

```
=> s calcium ascorbate
      93449 CALCIUM
      710 ASCORBATE
L13      2 CALCIUM ASCORBATE
          (CALCIUM(W) ASCORBATE)
```

```
=> d l13 1-2
```

L13 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 5743-28-2 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN L-Ascorbic acid, calcium salt (2:1), dihydrate (8CI, 9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Calcium ascorbate dihydrate  
 CN Calcium L-ascorbate dihydrate  
 FS STEREOSEARCH  
 DR 6381-95-9  
 MF C6 H8 O6 . 1/2 Ca . H2 O  
 LC STN Files: BIOSIS, CA, CAPLUS, CHEMCATS, CHEMLIST, CSChem, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USAN, USPAT2, USPATFULL  
 CRN (50-81-7)

Absolute stereochemistry.



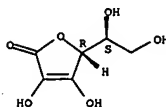
● 1/2 Ca

● H2O

12 REFERENCES IN FILE CA (1907 TO DATE)  
 12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L13 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2007 ACS on STN  
 RN 5743-27-1 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN L-Ascorbic acid, calcium salt (2:1) (8CI, 9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN As-Cal  
 CN Ascalan  
 CN Ascorbic acid calcium salt  
 CN Ascorvit CA  
 CN Calcascorbin  
 CN Calci-C  
 CN Calcio  
 CN Calcio-Ci  
 CN Calcium ascorbate  
 CN Calcasorbate  
 CN E 302  
 CN Erivit C  
 CN Hemicalcium ascorbate  
 CN L-Ascorbic acid calcium salt  
 FS STEREOSEARCH  
 DR 96653-51-9  
 MF C6 H8 O6 . 1/2 Ca  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSChem, EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MRCK\*, PROMT, PS, TOXCENTER, USAN, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 CRN (50-81-7)

Absolute stereochemistry.



● 1/2 Ca

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

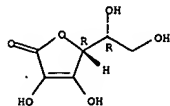
416 REFERENCES IN FILE CA (1907 TO DATE)  
 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 416 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> s calcium isoascorbate
    93449 CALCIUM
      7 ISOASCORBATE
L14    1 CALCIUM ISOASCORBATE
      (CALCIUM(W) ISOASCORBATE)

=> d l14
```

L14 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 99552-34-8 REGISTRY  
ED Entered STN: 21 Dec 1985  
CN D-erythro-Hex-2-enonic acid,  $\gamma$ -lactone, calcium salt (9CI) (CA  
INDEX NAME)  
OTHER NAMES:  
CN Calcium isoascorbate  
FS STEREOSEARCH  
MF C6 H8 O6 . x Ca  
SR CA  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CHEMLIST, TOXCENTER, USPAT2,  
USPATFULL  
(\*File contains numerically searchable property data)  
CRN (89-65-6)

Absolute stereochemistry.



● x Ca

4 REFERENCES IN FILE CA (1907 TO DATE)  
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s calcium ascorbic acid

93449 CALCIUM

4141 ASCORBIC

8108729 ACID

8158 ACIDS

8114634 ACID

(ACID OR ACIDS)

L15 0 CALCIUM ASCORBIC ACID

(CALCIUM(W) ASCORBIC (W) ACID)

=> s calcium isoascorbic acid

93449 CALCIUM

13 ISOASCORBIC

8108729 ACID

8158 ACIDS

8114634 ACID

(ACID OR ACIDS)

L16 1 CALCIUM ISOASCORBIC ACID

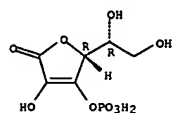
(CALCIUM(W) ISOASCORBIC (W) ACID)

=> d l16



L16 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 41236-00-4 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN D-erythro-Hex-2-enonic acid,  $\gamma$ -lactone, 3-(dihydrogen phosphate),  
calcium salt (1:1) [9CI] (CA INDEX NAME)  
OTHER NAMES:  
CN Monocalcium isoascorbic acid-3-phosphate  
FS STEREOSEARCH  
MF C6 H9 O9 P . Ca  
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL  
CRN (737700-26-4)

Absolute stereochemistry.



● Ca

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil caplus  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
58.65	134.68

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 12:23:12 ON 05 MAR 2007  
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FILE LAST UPDATED: 4 Mar 2007 (20070304/ED)

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=> s 113/p

L17 15 L13/P

=> s 117 and 50-81-7/rn

82423 50-81-7

1832 50-81-7D

81335 50-81-7/RN

(50-81-7 (NOTL) 50-81-7D )

L18 10 L17 AND 50-81-7/RN

=> s 114/p

L19 1 L14/P

=> d ibib abs hitstr 118 1-10

ACCESSION NUMBER: 2004:544228 CAPLUS

DOCUMENT NUMBER: 142:197081

TITLE: Preparation of calcium ascorbate by mechanochemical synthesis

AUTHOR(S): Du, Baoan; Du, Yanjun; Wang, Lijuan; Wang, Maosheng; Gao, Huiying; Dong, Lixin

CORPORATE SOURCE: College of Chemical + Environmental Science, Hebei University, Baoding, 071002, Peop. Rep. China

SOURCE: Shipin Gongye Keji (2002), 23(12), 38-39

CODEN: SGOKE6; ISSN: 1002-0306

PUBLISHER: Shipin Gongye Keji Bianjibu

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB Ca ascorbate was prepared by mechanochem. synthesis method from ascorbic acid and active Ca. The reaction process was modified by IR. All indexes of the product met the standard of the GB15809-1995 and USP(1995).

Compared with other methods, the costs of production and equipment investment were very

low, the period of production was very short, and the quality of the product

was excellent. This technol. was suitable for industrial production

IT 50-81-7, Ascorbic acid, biological studies

RL: FFD (Food or feed use); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)

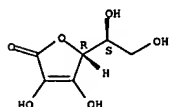
(preparation of calcium ascorbate by mechanochem. synthesis ascorbic

acid and active calcium)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 5743-27-1P, Calcium ascorbate

RL: FFD (Food or feed use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

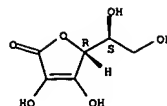
(preparation of calcium ascorbate by mechanochem. synthesis ascorbic

acid and active calcium)

RN 5743-27-1 CAPLUS

CN L-Ascorbic acid, calcium salt (2:1) (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 1/2 Ca

ACCESSION NUMBER: 2002:157178 CAPLUS

DOCUMENT NUMBER: 136:199024

TITLE: Microbial production of L-ascorbic acid and D-erythorbic acid

INVENTOR(S): Asakura, Akira; Hoshino, Tatsuo; Shinjoh, Masako

PATENT ASSIGNEE(S): Roche Vitamins Ag, Switz.

SOURCE: Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1182262	A1	20020227	EP 2001-119585	20010816
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
IN 193203	A1	20040717	IN 2001-MA687	20010820
AU 781277	B2	20050512	AU 2001-63544	20010820
CA 2355298	A1	20020223	CA 2001-2355298	20010821
NO 2001004082	A	20020225	NO 2001-4082	20010822
JP 2002101895	A	20020409	JP 2001-253335	20010823
BR 2001003639	A	20020416	BR 2001-3639	20010823
CN 1351171	A	20020529	CN 2001-125728	20010823
US 2003105160	A1	20030605	US 2001-938035	20010823
US 6777212	B2	20040817		

PRIORITY APPLN. INFO.: EP 2000-118059 A 20000823

AB A process for producing L-ascorbic acid or D-erythorbic acid or in each case its sodium, potassium or calcium salt, from 2-keto-L-gulonic acid or 2-keto-D-gluconic acid or in each case its sodium, potassium or calcium salt, involves incubating 2-keto-L-gulonic acid or 2-keto-D-gluconic

acid, each as the free acid or as its sodium, potassium or calcium salt, and cells of a thermoacidophilic microorganism at temp. from about 30°C to about 100°C and at a pH from about 1 to about 6 in a solution to form L-ascorbic acid or D-erythorbic acid or an appropriate

salt thereof, and isolating said product from the solution L-Ascorbic acid (vitamin C) is widely used not only in health care as such but also in food, animal feed, e.g. fish feed, and cosmetics. D-Erythorbic acid is mainly used as an antioxidant for food additives.

IT 50-81-7P, L-Ascorbic acid, preparation 5743-27-1P,

Calcium ascorbate

RL: BNF (Bioindustrial manufacture); BIOL (Biological study); PREP (Preparation)

(production of L-ascorbic acid and D-erythorbic acid by

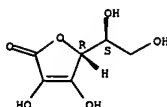
Alicyclobacillus

strains)

RN 50-81-7 CAPLUS

CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

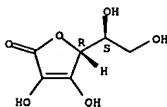
Absolute stereochemistry.



RN 5743-27-1 CAPLUS

CN L-Ascorbic acid, calcium salt (2:1) (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 1/2 Ca

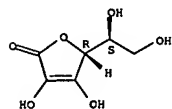
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L18 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:281632 CAPLUS  
DOCUMENT NUMBER: 131:68103  
TITLE: Calcium L-ascorbate synthesis and antioxidation  
AUTHOR(S): Zhou, You-Ya; Li, Ji-Hui; Gao, Feng-Ge; Li, Mei  
CORPORATE SOURCE: Department of Chemistry, Hebei Normal University, Shijiazhuang, 050091, Peop. Rep. China  
SOURCE: Hebei Shifan Daxue Xuebao, Ziran Kexueban (1999), 23(1), 94-96  
CODEN: HSDKEG; ISSN: 1000-5854  
PUBLISHER: Hebei Shifan Daxue Xuebao Bianjibu  
DOCUMENT TYPE: Journal  
LANGUAGE: Chinese  
AB Calcium L-ascorbate was synthesized with L-ascorbic acid and CaCO<sub>3</sub>. The antioxidn. of the compound on chicken and fish meat was examined Results shown that this compound can preserve protein denaturation through its antioxidn.  
IT 5743-27-1P, Calcium ascorbate  
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
RN 5743-27-1 CAPLUS  
CN L-Ascorbic acid, calcium salt (2:1) (8CI, 9CI) (CA INDEX NAME)

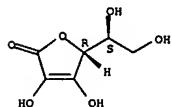
Absolute stereochemistry.



● 1/2 Ca

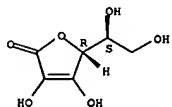
IT 50-81-7, L-Ascorbic acid, reactions  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(calcium L-ascorbate synthesis and antioxidn.)  
RN 50-81-7 CAPLUS  
CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)



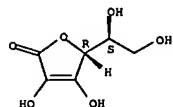
L18 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:41547 CAPLUS  
DOCUMENT NUMBER: 126:60281  
TITLE: Process for preparing calcium ascorbate  
INVENTOR(S): Kochetkova, Larisa I.; Chumakov, Sergej I.; Ionin, Vladimir N.; Rudenko, Anna A.; Istomina, Lyudmila I.; Veterkhanov, Supyan R.  
PATENT ASSIGNEE(S): Aktsionernoe Obshchestvo Otkrytogo Tipa "belgorodvitaminy", Russia  
SOURCE: Russ. From: Izobreteniya 1996, (9), 223-224.  
CODEN: RUXKE7  
DOCUMENT TYPE: Patent  
LANGUAGE: Russian  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2057128	C1	19960327	RU 1992-5040908	19920506
PRIORITY APPLN. INFO.:			SU 1992-5040908	A 19920506

OTHER SOURCE(S): CASREACT 126:60281  
AB Title only translated.  
IT 5743-27-1P, Calcium ascorbate  
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)  
RN 5743-27-1 CAPLUS  
CN L-Ascorbic acid, calcium salt (2:1) (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 1/2 Ca

IT 50-81-7, Ascorbic acid, reactions  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of calcium ascorbate)  
RN 50-81-7 CAPLUS  
CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

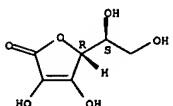
ACCESSION NUMBER: 1996:194730 CAPLUS  
DOCUMENT NUMBER: 124:242304  
TITLE: Preparation of calcium ascorbate from ascorbic acid  
INVENTOR(S): Wen, Sujie; Huo, Yulan; Wu, Hongbin  
PATENT ASSIGNEE(S): Zhongnan New Technology Inst., P.L.A., Peop. Rep. China  
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 10 pp.  
CODEN: CNXXEV  
DOCUMENT TYPE: Patent  
LANGUAGE: Chinese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1107845	A	19950906	CN 1994-100392	19940113
CN 1044706	B	19990818		
PRIORITY APPLN. INFO.:			CN 1994-100392	19940113

AB Calcium ascorbate for medical use is prepared from ascorbic acid by dissolving ascorbic acid in hot water, treating with calcium phosphate and then with lime milk to pH 4.5-7, filtering under reduced pressure, concentrating the liquid phase, crystallizing, centrifuging to sep. the crystals, washing with ethanol, and drying at 50-60° under reduced pressure or at regular pressure. The yield was 94-98.5% and purity ≥98.5%.

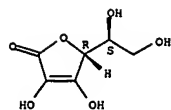
IT 50-81-7, Ascorbic acid, reactions  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of calcium ascorbate from ascorbic acid)  
RN 50-81-7 CAPLUS  
CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 5743-27-1P, Calcium ascorbate  
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of calcium ascorbate from ascorbic acid)  
RN 5743-27-1 CAPLUS  
CN L-Ascorbic acid, calcium salt (2:1) (8CI, 9CI) (CA INDEX NAME)

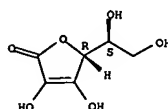
Absolute stereochemistry.



● 1/2 Ca

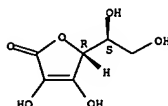
ACCESSION NUMBER: 1991:134809 CAPLUS  
 DOCUMENT NUMBER: 114:134809  
 TITLE: Mechanochemical synthesis of ascorbic acid salts  
 AUTHOR(S): Chuev, V. P.; Belova, V. M.; Ivanov, E. Yu.  
 CORPORATE SOURCE: IKHITIMS, Belgorod, USSR  
 SOURCE: Mekhanokhim. Sint., Dokl. Vses. Nauchno-Tekh. Konf. (1990), 172-5. Editor(s): Butyagin, P. Yu. Izd. Dal'nevost. Univ.: Vladivostok, USSR.  
 CODEN: 56YJAG  
 DOCUMENT TYPE: Conference  
 LANGUAGE: Russian  
 AB Mechanochem. activation of ascorbic acid (HL) with  $MHCO_3$  ( $M = Na, K$ ),  $NOH$ ,  $M_2CO_3$ ,  $Ca(OH)_2$ , and  $CaO$  gave ML and  $CaL_2$ .  $Ca(OH)_2$  and  $CaO$  required the presence of  $H_2O$  for reaction.  $CaCO_3$ ,  $FeO$ , and  $Fe(OH)_2$  did not react.  
 IT 50-81-7, Ascorbic acid, reactions  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (mechanochem. reaction of, with calcium and potassium and sodium salts)  
 RN 50-81-7 CAPLUS  
 CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 5743-27-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, by mechanochem. reaction of ascorbic acid with salts)  
 RN 5743-27-1 CAPLUS  
 CN L-Ascorbic acid, calcium salt (2:1) (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



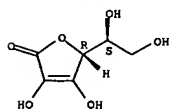
● 1/2 Ca

ACCESSION NUMBER: 1988:43899 CAPLUS  
 DOCUMENT NUMBER: 108:43899  
 TITLE: Preliminary study on the synthesis and stability of calcium ascorbate  
 AUTHOR(S): Xin, Mingqing  
 CORPORATE SOURCE: Sci. Res. Inst. Food Ferment. Ind., Minist. Light Ind., Beijing, Peop. Rep. China  
 SOURCE: Shipin Yu Fajiao Gongye (1987), (4), 25-8  
 CODEN: SPYYDO; ISSN: 0253-990X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Chinese  
 AB Ca ascorbate (I) was prepared by reaction of ascorbic acid (II) with  $CaCO_3$ .

The stability of I was better than II in a storage test at room temperature for 56 mo.. Both I and II were stable as additives in honey, sucrose, and starch and had antioxidant properties.

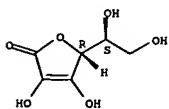
IT 50-81-7, Ascorbic acid, properties  
 RL: PRP (Properties)  
 (antioxidant property and stability of)  
 RN 50-81-7 CAPLUS  
 CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 5743-27-1P, Calcium ascorbate  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and stability and antioxidant property of)  
 RN 5743-27-1 CAPLUS  
 CN L-Ascorbic acid, calcium salt (2:1) (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 1/2 Ca

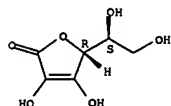
ACCESSION NUMBER: 1988:26949 CAPLUS  
 DOCUMENT NUMBER: 108:26949  
 TITLE: Fluorocarbon blood substitutes  
 INVENTOR(S): Long, David M., Jr.  
 PATENT ASSIGNEE(S): USA  
 SOURCE: Eur. Pat. Appl., 10 pp.  
 CODEN: EPXDXW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 7  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 231070	A2	19870805	EP 1987-300248	19870113
EP 231070	A3	19870923		
EP 231070	B1	19980610		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE				
US 4865836	A	19890912	US 1986-818690	19860114
NO 8700130	A	19870715	NO 1987-130	19870113
NO 173214	B	19930809		
NO 173214	C	19931117		
AU 8767516	A	19870716	AU 1987-67516	19870113
AU 599068	B2	19900712		
AT 167054	T	19980615	AT 1987-300248	19870113
ES 2120400	T3	19981101	ES 1987-300248	19870113
ZA 8700252	A	19871125	ZA 1987-252	19870114
JP 01139526	A	19890601	JP 1987-5201	19870114
CA 1279011	C	19910115	CA 1987-527330	19870114
WO 9100090	A1	19910110	WO 1989-US2948	19890705
W: AU, JP				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AU 853649	A	19910117	AU 1989-39649	19890705
CA 133854	C	19970121	CA 1989-604769	19890705
US 5080885	A	19920114	US 1989-387947	19890824
US 5393513	A	19950228	US 1993-100664	19930730
PRIORITY APPLN. INFO.:				US 1986-818690 A 19860114
				EP 1987-300248 19870113
				WO 1989-US2948 A 19890705
				US 1989-387947 A1 19890824
				US 1991-811026 B1 19911219

AB Perfluorocarbon emulsion blood substitutes contain an aqueous phase and a brominated perfluorocarbon-based monaq. phase that contains an emulsifier and a biocompatible amount of a compound chosen from cholesterol, tocopherol, and/or a steroid hormone. After heat sterilization, 95% of the emulsified bromoperfluorocarbon exists (as the non-frozen emulsion) as particle size <400 nm with mean diameter <150 nm. after 1 mo. A perfluorocarbon emulsion was prepared, containing perfluorooctyl bromide 100, lecithin 9.1, 6α-fluoro-16α-methylprednisolone 0.02, α-tocopherol 0.2, glycerol 1.0, Na diphosphate 0.012, and Na phosphate 0.057% (weight/volume ratio), in a micromixer at 15 cycles of separation and redirection of flows at

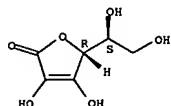
L18 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 >1500 ft/s. The particle size distribution showed 2 peaks at 84.2-87.2 (major) and 200.0-252.6 nm which did not change after sterilization at 90° for 15 min.  
 IT 50-81-7P, Ascorbic acid, biological studies 5743-27-1P,  
 Calcium ascorbate  
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (blood substitutes containing, bromoperfluorocarbon emulsion-based, preparation and stabilization of)  
 RN 50-81-7 CAPLUS  
 CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



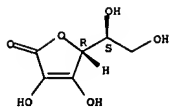
RN 5743-27-1 CAPLUS  
 CN L-Ascorbic acid, calcium salt (2:1) (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 1/2 Ca

L18 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



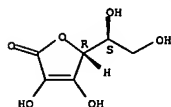
● 1/2 Ca

L18 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1985:154796 CAPLUS  
 DOCUMENT NUMBER: 102:154796  
 TITLE: Physiologically active preparation for decreasing the plasma cholesterol level  
 INVENTOR(S): Kubic, Frantisek; Ginter, Emil  
 PATENT ASSIGNEE(S): Czech.  
 SOURCE: Czech., 6 pp.  
 CODEN: CZXXA9  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Czech  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 212525	B1	19820326	CS 1979-4794	19790709
PRIORITY APPLN. INFO.:			CS 1979-4794	19790709

AB Anticholesteremic compns. were formulated containing ascorbic acid (50-81-7) or its salts, a fibrous nondigestible component, preservative, stabilizer, and flavorant. They are also useful for the treatment of gastrointestinal disorders. Thus, a powdered mixture of Ca ascorbate [5743-27-1] 3.63, guar polymer 90, Na benzoate 0.1, and orange flavor 1 was granulated with an aqueous 50% solution containing glucose 5.27 parts.  
 IT 50-81-7P, preparation 5743-27-1P  
 RL: PREP (Preparation)  
 (anticholesteremic pharmaceuticals containing)  
 RN 50-81-7 CAPLUS  
 CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 5743-27-1 CAPLUS  
 CN L-Ascorbic acid, calcium salt (2:1) (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

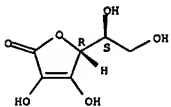
L18 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1981:425535 CAPLUS  
 DOCUMENT NUMBER: 95:25535  
 TITLE: Solid crystalline composition consisting essentially of calcium ascorbate  
 INVENTOR(S): Schreur, Clarence  
 PATENT ASSIGNEE(S): USA  
 SOURCE: U.S., 4 pp. Cont.-in-part of U.S. Ser. No. 595,234, abandoned.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4251449	A	19810217	US 1979-9480	19790205
CA 1137095	A1	19821207	CA 1980-359203	19800828
FR 2497804	A1	19820716	FR 1981-553	19810114
DE 3100955	A1	19820805	DE 1981-3100955	19810114
GB 2091267	A	19820728	GB 1981-1168	19810115
BE 887130	A1	19810514	BE 1981-203524	19810119
NL 8100297	A	19820816	NL 1981-297	19810122
PRIORITY APPLN. INFO.:			US 1975-595234	AZ 19750711

AB Ascorbic acid was treated with CaCO<sub>3</sub> in aqueous medium at ≤70°, under controlled conditions so that the reaction mixture was maintained saturated with CO<sub>2</sub>(g) and CO<sub>2</sub> foam blanket was maintained over the reaction mixture to give a syrupy product, which spontaneously crystallized to give solid crystalline mass consisting essentially of Ca ascorbate.

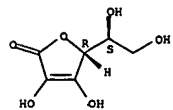
IT 5743-27-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, from ascorbic acid and calcium carbonate)  
 RN 5743-27-1 CAPLUS  
 CN L-Ascorbic acid, calcium salt (2:1) (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 1/2 Ca

IT 50-81-7, reactions  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with calcium carbonate)  
 RN 50-81-7 CAPLUS  
 CN L-Ascorbic acid (8CI, 9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 12:13:27 ON 05 MAR 2007)

FILE 'CAPLUS' ENTERED AT 12:16:03 ON 05 MAR 2007

L1 1 S US20050222438/PN  
SELECT L1 1 RN

FILE 'CAPLUS' ENTERED AT 12:16:28 ON 05 MAR 2007

L2 252653 S E1-E7  
L3 2448 S 134-03-2/RN

FILE 'REGISTRY' ENTERED AT 12:17:43 ON 05 MAR 2007

L4 7 S E1-E7

FILE 'CAPLUS' ENTERED AT 12:19:16 ON 05 MAR 2007

L5 81335 S 50-81-7/RN  
L6 6231 S L5 AND CALCIUM  
L7 234 S L6 AND CALCIUM ASCORBATE  
L8 0 S L7 AND NITROGEN DIOXIDE  
L9 0 S L7 AND NITRIC OXIDE  
L10 181 S L7 AND ASCORBIC ACID

FILE 'REGISTRY' ENTERED AT 12:21:11 ON 05 MAR 2007

L11 1 S 50-81-7  
L12 1 S 89-65-6

FILE 'CAPLUS' ENTERED AT 12:21:30 ON 05 MAR 2007

FILE 'REGISTRY' ENTERED AT 12:21:40 ON 05 MAR 2007

L13 2 S CALCIUM ASCORBATE  
L14 1 S CALCIUM ISOASCORBATE  
L15 0 S CALCIUM ASCORBIC ACID  
L16 1 S CALCIUM ISOASCORBIC ACID

FILE 'CAPLUS' ENTERED AT 12:23:12 ON 05 MAR 2007

L17 15 S L13/P  
L18 10 S L17 AND 50-81-7/RN  
L19 1 S L14/P

=> d ibib abs hitstr l19



ACCESSION NUMBER: 2002:157178 CAPLUS

DOCUMENT NUMBER: 136:199024

TITLE: Microbial production of L-ascorbic acid and D-erythorbic acid

INVENTOR(S): Asakura, Akira; Hoshino, Tatsuo; Shinjoh, Masako

PATENT ASSIGNEE(S): Roche Vitamins Ag, Switz.

SOURCE: Eur. Pat. Appl., 19 pp.

CODEN: EPXKDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1182262	A1	20020227	EP 2001-119585	20010816
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
IN 193203	A1	20040717	IN 2001-MA687	20010820
AU 781277	B2	20050512	AU 2001-63544	20010820
CA 2355298	A1	20020223	CA 2001-2355298	20010821
NO 2001004082	A	20020225	NO 2001-4082	20010822
JP 2002101895	A	20020409	JP 2001-253335	20010823
BR 2001003639	A	20020416	BR 2001-3639	20010823
CN 1351171	A	20020529	CN 2001-125728	20010823
US 2003105160	A1	20030605	US 2001-938035	20010823
US 6777212	B2	20040817		

PRIORITY APPLN. INFO.: EP 2000-118059 A 20000823

AB A process for producing L-ascorbic acid or D-erythorbic acid or in each case its sodium, potassium or calcium salt, from 2-keto-L-gulonic acid or 2-keto-D-gluconic acid or in each case its sodium, potassium or calcium salt, involves incubating 2-keto-L-gulonic acid or 2-keto-D-gluconic acid,

each as the free acid or as its sodium, potassium or calcium salt, and cells of a thermoacidophilic microorganism at temps. from about 30°C to about 100°C and at a pH from about 1 to about 6 in a solution to form L-ascorbic acid or D-erythorbic acid or an appropriate salt

thereof, and isolating said product from the solution L-Ascorbic acid (vitamin C) is widely used not only in health care as such but also in food, animal feed, e.g. fish feed, and cosmetics. D-Erythorbic acid is mainly used as an antioxidant for food additives.

IT 99552-34-8P

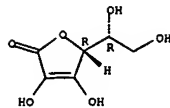
RL: BMF (Bioindustrial manufacture); BIOL (Biological study); PREP (Preparation)

(production of L-ascorbic acid and D-erythorbic acid by Alicyclobacillus strains)

RN 99552-34-8 CAPLUS

CN D-erythro-Hex-2-enonic acid, γ-lactone, calcium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● x Ca

REFERENCE COUNT: 4

FORMAT

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

63.40

198.08

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-8.58

-8.58

STN INTERNATIONAL LOGOFF AT 12:24:43 ON 05 MAR 2007